WHAT IS CLAIMED IS:

1. A signal processing method for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:

a reading step of reading the multiplexed data from the first recording medium;

a decoding step of decoding at least one of the coded audio data and the coded video data which are included in the readout multiplexed data, to generate decoded data;

a re-coding step of re-coding the decoded data by a coding method which is different from a first coding method used in a coding process of the coded audio data and a second coding method used in a coding process of the coded video data, to generate recoded data; and

a recording step of recording the re-coded data on the second recording medium.

The signal processing method of Claim 1

wherein the decoding step is a step of decoding at least part of the coded audio data included in the readout multiplexed data, to generate decoded audio data; and

the re-coding step is a step of re-coding the decoded audio data by a third coding method which is different from the first coding method, to generate re-coded audio data as the re-coded

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3. The signal processing method of Claim 1

wherein the decoding step is a step of decoding at least part of the coded video data included in the readout multiplexed data, to generate decoded video data; and

the re-coding step is a step of re-coding the decoded video data by a fourth coding method which is different from the second coding method, to generate re-coded video data as the re-coded data.

4. The signal processing method of Claim 1

wherein the decoding step is a step of decoding at least part of the coded video data included in the readout multiplexed data, to generate decoded video data;

the re-coding step is a step of re-coding the decoded video data by a fourth coding method which is different from the second coding method, to generate re-coded video data; and

the recording step is a step of recording at least part of the coded audio data included in the readout multiplexed data and the re-coded video data on the second recording medium.

The signal processing method of Claim 1

wherein the decoding step is a step of decoding at least part of coded audio data included in the readout multiplexed data,

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to generate decoded audio data;

the re-coding step is a step of re-coding the decoded audio data by a third coding method which is different from the first coding method, to generate re-coded audio data; and

the recording step is a step of recording at least part of the coded video data included in the readout multiplexed data and the re-coded audio data on the second recording medium.

6. The signal processing method of Claim 1

wherein the decoding step is a step of decoding at least part of the coded audio data and at least part of the coded video data which are included in the readout multiplexed data, to generate decoded audio data and decoded video data, respectively;

the re-coding step is a step of re-coding the decoded audio data by a third coding method which is different from the first coding method, to generate re-coded audio data, as well as re-coding the decoded video data by a fourth coding method which is different from the second coding method, to generate re-coded video data; and

the recording step is a step of recording the re-coded audio data and the re-coded video data on the second recording medium.

7. The signal processing method of any of Claims 3, 4 and 6 wherein the second coding method is MPEG method, and the fourth coding method is JPEG method.

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8. The signal processing method of Claim 1

wherein the coded video data is one which is obtained by coding a video signal using MPEG method as the second coding method;

the decoding step is a step of decoding at least a specific portion of the coded video data included in the readout multiplexed data, which portion corresponds to one field or one frame, to generate decoded video data, as well as decoding a prescribed amount of the coded audio data included in the readout multiplexed data, sequentially from a portion thereof relating to the specific portion, to generate decoded audio data; and

the re-coding step is a step of re-coding at least part of the decoded video data by JPEG method to generate re-coded video data, as well as re-coding the decoded audio data by a third coding method which is different from the first coding method to generate re-coded audio data.

- 9. A signal processing method for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:
- a reading step of reading the multiplexed data from the first recording medium;
 - a decoding step of decoding at least a specific portion of

the coded video data included in the readout multiplexed data, which portion corresponds to one field or one frame, to generate decoded video data, as well as decoding a prescribed amount of coded audio data included in the readout multiplexed data, sequentially from a portion thereof relating to the specific portion, to generate decoded audio data;

a re-coding step of re-coding at least part of the decoded video data by JPEG method which is different from MPEG method used in a coding process of the coded video data, to generate re-coded video data, as well as re-coding the decoded audio data by a third coding method which is different from a first coding method used in a coding method of the coded audio data, to generate re-coded audio data; and

- a recording step of recording the re-coded video data and the rc-coded audio data on the second recording medium.
- 10. A signal processing method for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:
- a reading step of reading the multiplexed data from the first recording medium;
- a decoding step of decoding at least part of the coded video data included in the readout multiplexed data, to generate decoded video data;

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a conversion step of subjecting the decoded video data to a resolution conversion process for thinning out pixel values or a conversion process for converting a data format, to generate converted video data;

a re-coding step of re-coding the converted video data to generate re-coded video data; and

a recording step of recording the re-coded video data on the second recording medium.

- 11. A signal processing apparatus for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:
- a reading unit for reading the multiplexed data from the first recording medium;
- a decoder for decoding at least one of the coded audio data and the coded video data which are included in the readout multiplexed data, and outputting decoded data;
- a re-encoder for re-coding the decoded data by a coding method which is different from a first coding method used in a coding process of the coded audio data and a second coding method used in a coding process of the coded video data, and outputting re-coded data; and
- a recording unit for recording the re-coded data on the second redording medium.

12. A signal processing apparatus for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:

a reading unit for reading the multiplexed data from the first recording medium;

a video decoder for decoding at least a specific portion of the coded video data included in the readout multiplexed data, which portion corresponds to one field or one frame, and outputting decoded video data;

an audio decoder for decoding a prescribed amount of the coded audio data included in the readout multiplexed data, sequentially from a portion thereof relating to the specific portion, and outputting decoded audio data;

a video encoder for re-coding at least part of the decoded video data by JPEG method which is different from MPEG method used in a coding process of the coded video data, and outputting re-coded video data;

an audio encoder for re-coding the decoded audio data by a third coding method which is different from a first coding method used in a coding process of the coded audio data, to generate recoded audio data; and

a recording unit for recording the re-coded video data and the re-coded audio data on the second recording medium.

- 13. A signal processing apparatus for reading data from a first recording medium on which multiplexed data obtained by multiplexing coded audio data and coded video data are recorded, and recording the data on a second recording medium, comprising:
- a reading unit for reading the multiplexed data from the first recording medium;
- a video decoder for decoding at least part of the coded video data included in the readout multiplexed data, to generate decoded video data;
- a data converter for subjecting the decoded video data to a resolution conversion process for thinning out pixel values or a conversion process for converting a data format, to generate converted video data;
- an encoder for re-coding the converted video data to generate re-coded video data; and
- a recording unit for recording the re-coded video data on the second recording medium.